

Poughkeepsie 9.44.55

Rethinking the Arterials &
Interchange



Committee Meeting #3

Friday, February 14, 2020

Dutchess County Transportation Council



Agenda

- Welcome
- Chapters 1 and 2
 - Overview
 - Discussion
- Open House
- Next Steps
- Schedule



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Chapter 1 - Introduction

- Purpose
- Study Area
- Study Approach
- Goals
- Previous Studies
- Conclusions

This planning study is the result of years of momentum and calls for action to identify alternatives for the Arterials and Interchange, to address multi-modal safety and operational needs, enable funding for improvements, and ultimately improve quality of life



Slide 3

Chapter 2 – Existing Conditions

- Demographics
- Zoning
- Transit
- Roadways
- Traffic Characteristics
- Traffic Operations
- Crash Analysis
- Public Input



CHAPTER 2 – EXISTING CONDITIONS

This Chapter summarizes the existing demographics, zoning, transportation characteristics and initial public input that, when considered collectively, establish the need for change at the Interchange and along the Arterials.

- The demographic analysis shows that a high percentage of households in the area do not have access to a vehicle or rely on other modes of travel to get around, such as walking, bicycling or transit.
- The zoning analysis shows that the Arterials separate residential areas from commercial areas, requiring people to cross the Arterials to reach services and destinations.
- The traffic analysis shows that travel speeds are typically below the posted speed limit, that through traffic generally moves well, but there is recurring congestion at the Interchange.
- The crash analysis shows that many of the study area intersections and roadways experience crash rates above the statewide average for similar facilities. This includes the Interchange and sections of the westbound Arterial on Columbus Drive near Main Street, where weaving is a concern.
- The initial public input correlates well with the data showing concerns about traffic, operations, and safety. Although the majority of travelers at the Interchange and on the Arterials are drivers, initial public input has shown that the Arterials in their current configuration are often uncomfortable for pedestrians and there are documented concerns about safety, operations, and quality of life.



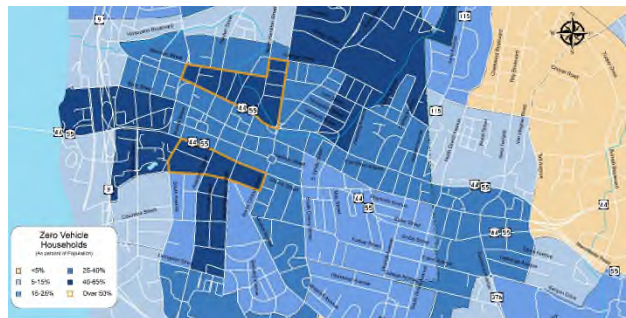
Poughkeepsie 944.55
Road Access Conditions Report – February 2020

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Demographics

- Population
 - › Age
 - › Minority
- Households in Poverty
- Zero Vehicle Households

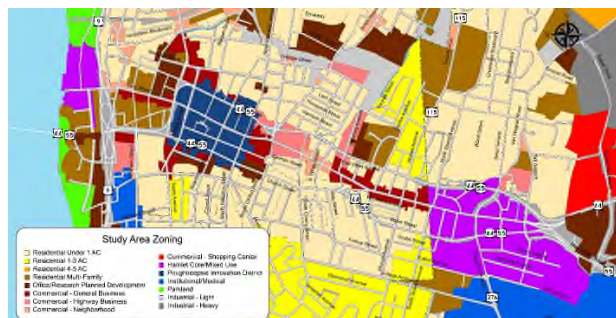
A high percent of the households do not have access to a vehicle or rely on other modes to get around



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Zoning

The Arterials separate residential areas from commercial areas

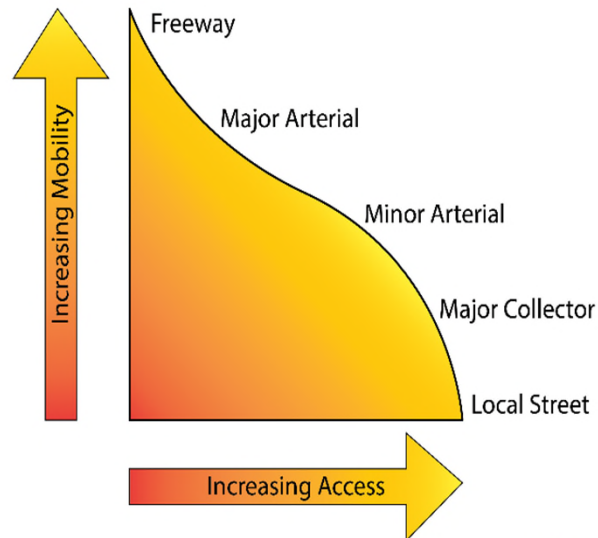


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Roadways

Functional class

Principal Arterial
(Expressway)
vs
Principal Arterial
(other)

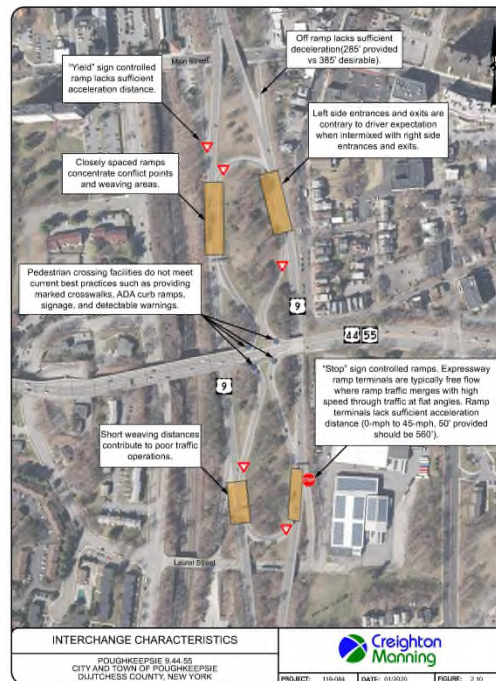


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Interchange

Characteristics

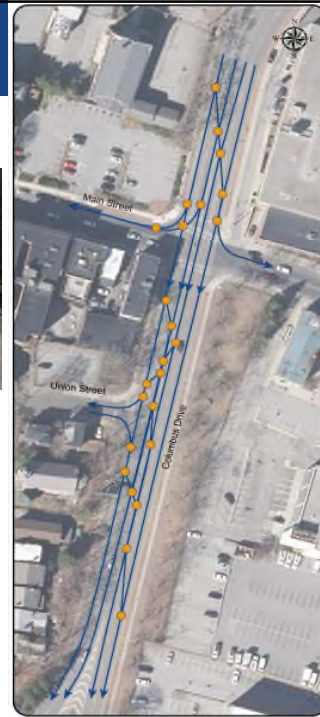
- Left side weaves
- Closely spaced ramps
- Yield and Stop control
- Acceleration and deceleration distances
- Pedestrian facilities



The Arterials

Characteristics

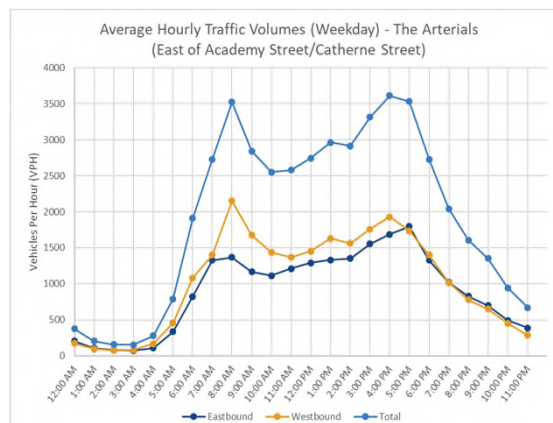
- Cross section
 - › 3 lanes one-way
 - › widths
- Conflict Points
- Intersections
 - › Coordinated signals
 - › Crosswalks and pedestrian signals



Traffic Characteristics

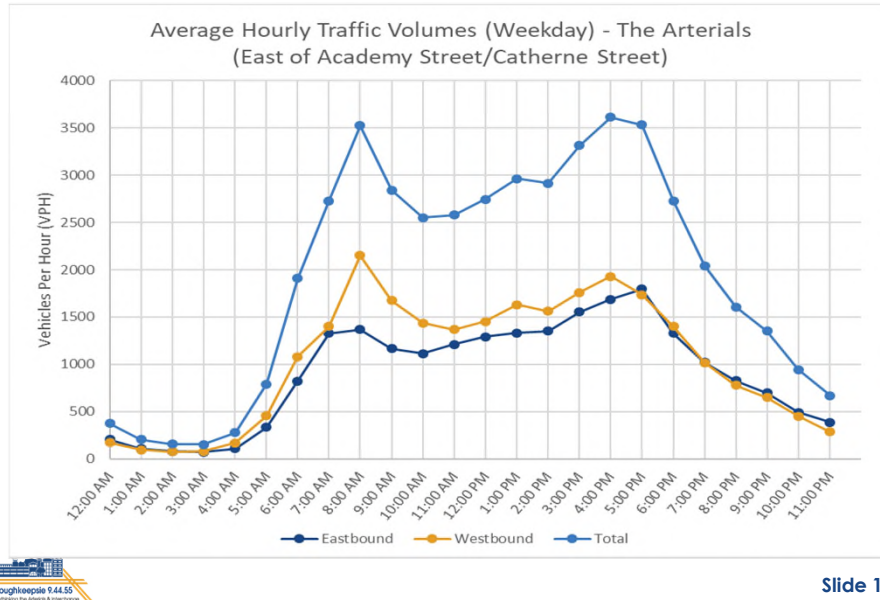
Volumes

- Daily volumes
 - › 31,000 to 40,000 vehicles per day
- Hourly variations
- Turning Movements
- Speeds
- Bike / Ped volumes
 - › Heavier west of High School area



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Traffic Characteristics



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Interchange

Levels of Service

Operations analysis shows that the weaving areas on the southbound side of the Interchange operate poorly (Level of Service F) at peak times



Traffic Operations

Levels of Service



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Crash Analysis

Type	Interchange	Intersection	Segment	Total Crashes
Vehicle	407	628	290	1,325
Pedestrian	0	24	6	30
Bicycle	0	13	5	18
Total	407	665	301	1,373



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Crash Analysis

Summary

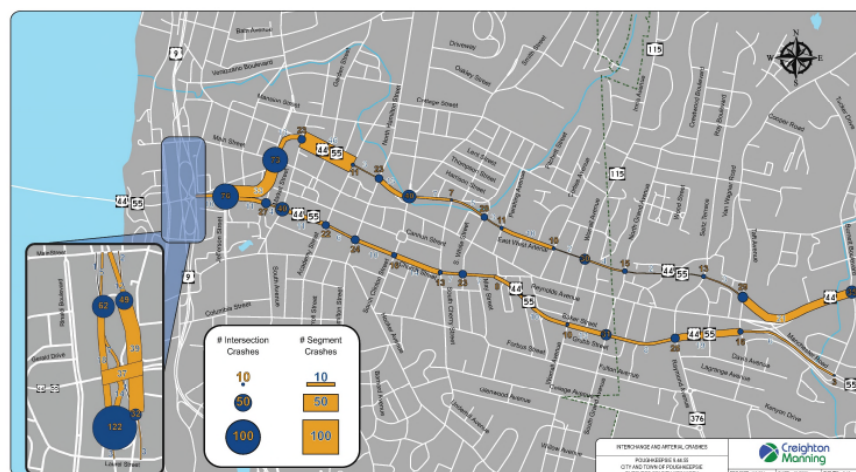
- 2 fatal
 - › Southbound US Route 9 near Laurel Street, apparently caused by medical condition
 - › Pedestrian not crossing at crosswalk near Clinton Street, sun glare, driver speeding

Crash analysis shows that crash rates on the Arterials and at the Interchange are typically above the statewide average for similar facilities



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Crashes

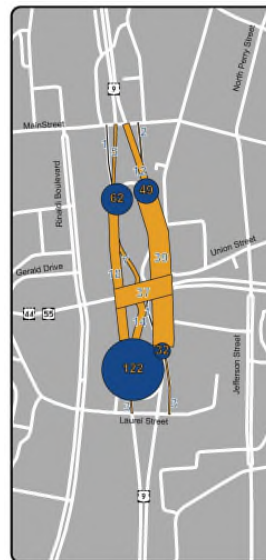


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Crash Analysis

Interchange

- 407 Crashes at the Interchange
- Crash Rate exceeds statewide average rate
- Most frequent: Rear-end and overtaking
- Contributing Factors:
 - › Following too close
 - › Drivers reacting to uninvolved vehicle
- Southbound weave area near the southbound on ramp 122 rear-end and sideswipe crashes.
- Northbound weave area near northbound on ramp 49 rear-end and sideswipe crashes



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Crash Analysis

Intersections

- 665 Crashes at intersections
- 16 of 28 intersections exceed the statewide average rate
- Most frequent/Contributing factors:
 - › Rear-end /driver inattention & following too close
 - › Right angle / failure to yield & driver inattention
 - › Overtaking / unsafe lane changes & improper turning
- Top three locations
 - › Westbound Arterial / Main Street
 - › Route 44/55/Jefferson Street
 - › Eastbound Arterial / Market Street



Crash Analysis

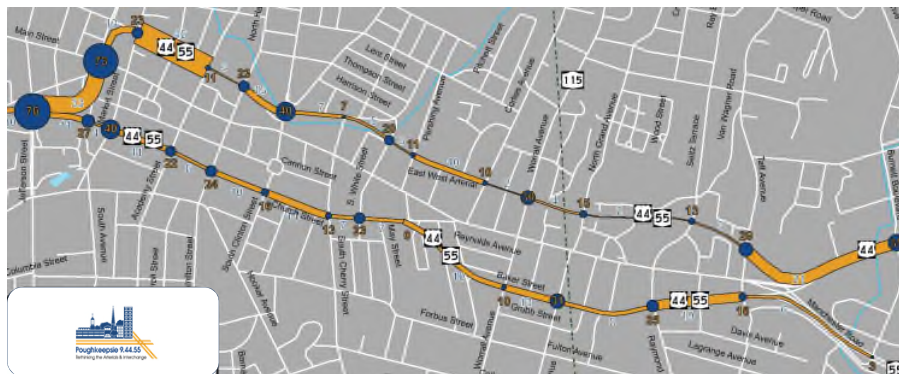
Segments

- 301 Crashes on Arterial Segments
- Overall, the Eastbound and Westbound Arterial segments exceed the statewide average.
- Most frequent: Rear-end and overtaking
- Contributing Factors: Driver inattention and following too close
- 6 of 7 sub-segments exceed the statewide average
 - › Westbound Arterial – Raymond to Innis Avenue less than statewide average



Crash Analysis

Segments



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Crash Analysis

Pedestrians and Bicycles

- 48 crashes involving pedestrians
- 30 pedestrian crashes
 - › Driver inattention and failure to yield right of way
 - › Pedestrian not using crosswalk, disregarding the signal, or other pedestrian error
- 18 bicycle crashes
 - › Vehicle not yielding
 - › Bicycle not stopping or yielding

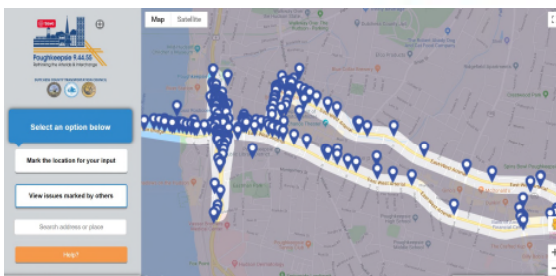


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Public Input on Existing Conditions

Aligns with technical analysis

- Concern about Interchange
- Concern about weaving
- Make it easier to walk and bike
- Improve safety



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Open House

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Open House

- Tuesday, March 3rd
- 4:30 pm to 7:00 pm
- 40 Cannon Street



Join us for an Open House

Tuesday, March 3, 2020

4:30 PM - 7:00 PM

Gallery 40
40 Cannon St
(between Market Street
and Academy Street)
Poughkeepsie, NY 12601

Parking
Parking is available on
Cannon Street and nearby
streets, or in the Cannon
Street lot or Academy Street
lot.

All parking is free after 6 PM.

The purpose of **Poughkeepsie 9.44.55** is to explore how to make the arterials and interchange safer, more accessible, and better integrated with the fabric of Poughkeepsie.



Come at any time between 4:30 PM - 7:00 PM to:

- Learn more about crash patterns, traffic flow, and speeds on the corridors
- Tell us about your experience on the interchange and arterials
- Share your priorities

Poughkeepsie 9.44.55 is being led by an advisory committee with representatives from the Dutchess County Transportation Council, the Dutchess County Planning Department, the City of Poughkeepsie, the State of Poughkeepsie, the Port Department of Transportation, and the NY State Authority.

Contact with us!

www.poughkeepsie94455.com

info@poughkeepsie94455.com



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Welcome

Poughkeepsie 9.44.55
Rethinking the Arterials & Interchange

Where did you come from to get to this meeting? Place a dot on the map near where you live or work.

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Welcome

Poughkeepsie 9.44.55
Rethinking the Arterials & Interchange

Project Focus

Rethinking the design of the Route 44/55 Arterials in Poughkeepsie and the Route 9 Interchange at the Mid-Hudson Bridge could dramatically improve how people travel to, within, and through Poughkeepsie.

We are undertaking this project to explore how to make the Arterials and Interchange safer, more accessible, and better integrated with the fabric of Poughkeepsie.

Project Goals

Improve safety along the arterials and at the interchange.

Improve traffic flow through the interchange and address congestion.

Make it easier to walk and bike between neighborhoods and downtown.

Recommend design concepts that improve the form and function of the arterials and interchange.

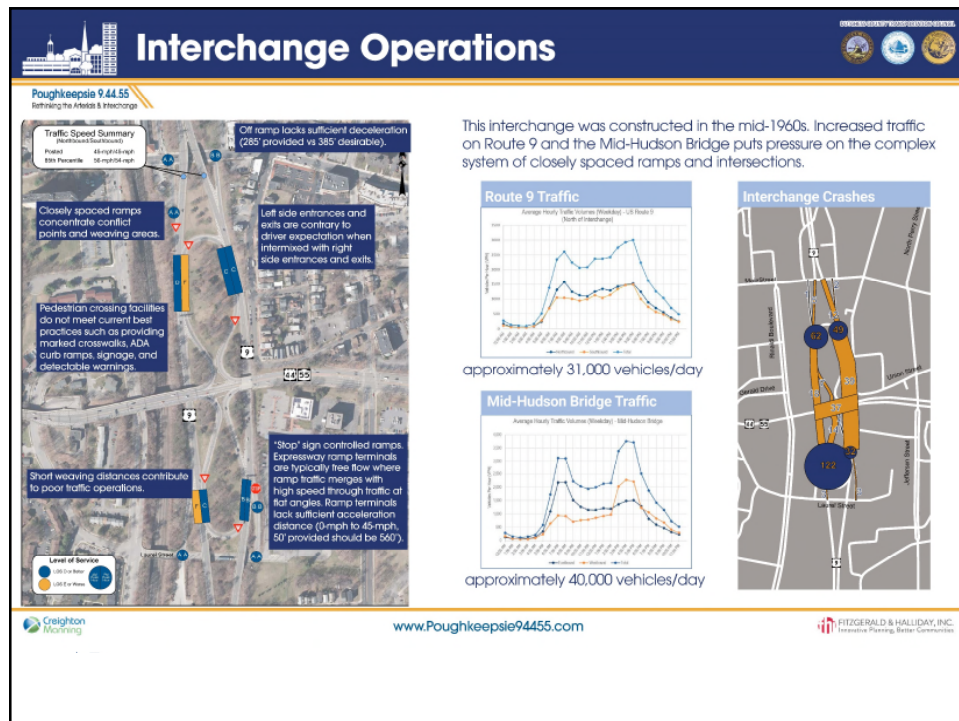
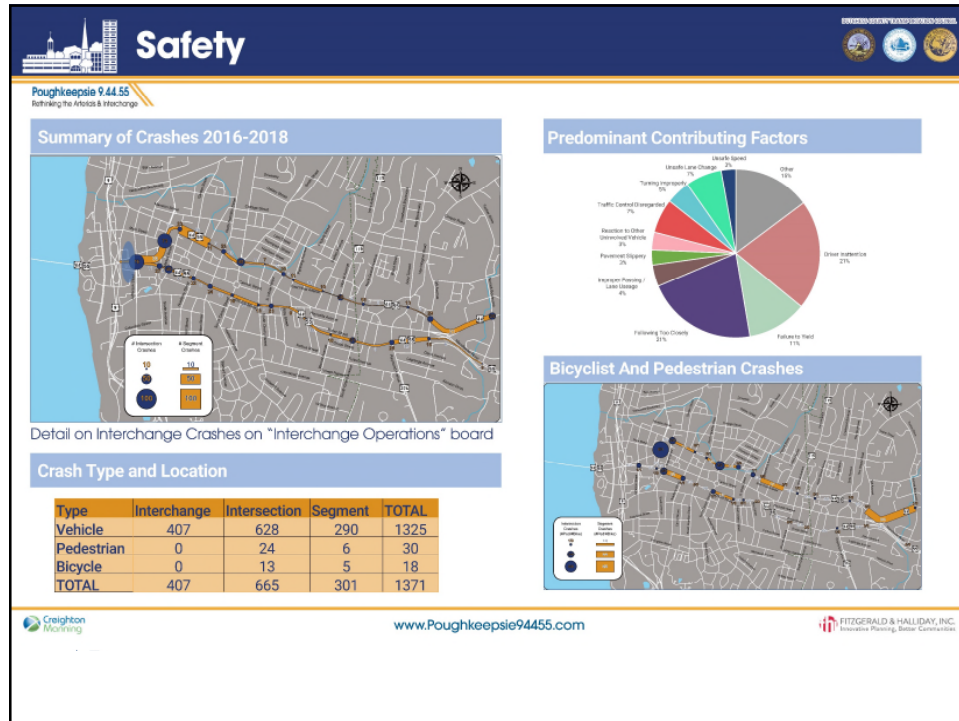
Anticipate future travel patterns and needs.

Identify costs.

After examining existing operations on the Arterials and Interchange, we're seeking your input on what improvements would be most beneficial.

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Interchange Operations

Poughkeepsie 9.44.55
Rethinking the Area's Interchange

FILL IN THE BLANK
place your dot on the answer that applies

I _____ avoid the 9/44/55 Interchange
due to congestion or safety concerns

NEVER

RARELY

SOMETIMES

OFTEN

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Interchange Operations

Poughkeepsie 9.44.55
Rethinking the Area's Interchange

When the team develops concepts, we can keep all movements, or remove some less critical ones to make space for safer operations within the limited right-of-way.

Which movements are the most important to you?

Place up to 2 dots in the rows for movements you would find most valuable in a redesigned interchange.

Main Street to/from Route 9 points south

Mid-Hudson Bridge to/from Route 9 Points North

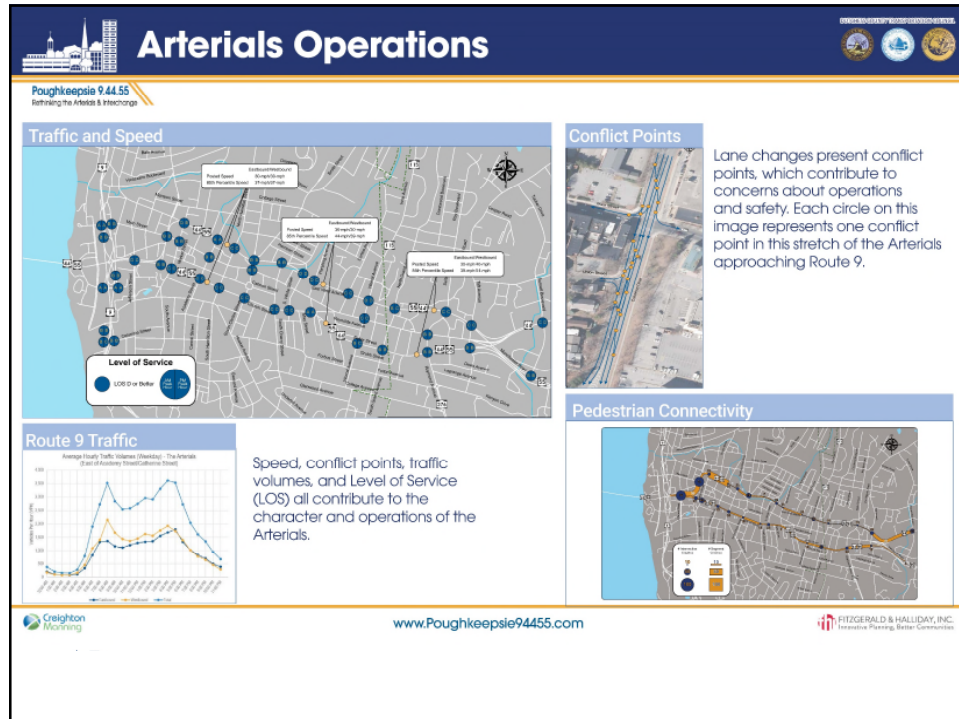
City (44/55) to/from Route 9 Points North

City (44/55) to/from Route 9 Points South

Mid-Hudson Bridge to/ from Route 9 Points South

Laurel Street to/from Route 9 Points South

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What If?

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Rethinking the Arterial & Interchange

Toolbox for the Arterials

What do you think about these or other ideas? Use a post-it note to denote thoughts specific to the Eastbound or Westbound Arterial

DO
NOTHING

CONVERT
TO
TWO-WAY

REDUCE
NUMBER
OF LANES

OTHER
IDEAS?

INTRODUCE
LANDSCAPED
STRIP OR
MEDIAN

INTRODUCE
PARKING LANE
OR
BICYCLE LANE

REMOVE OR
ADD TURNING
MOVEMENTS
AND LANES

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Next Steps

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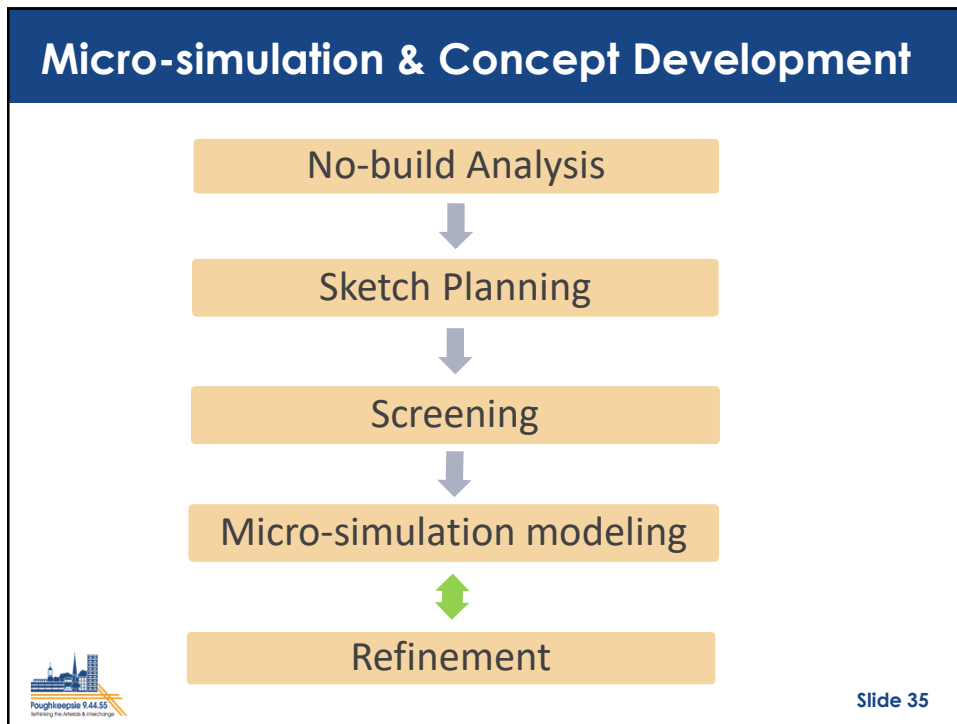
Origin-Destination Study



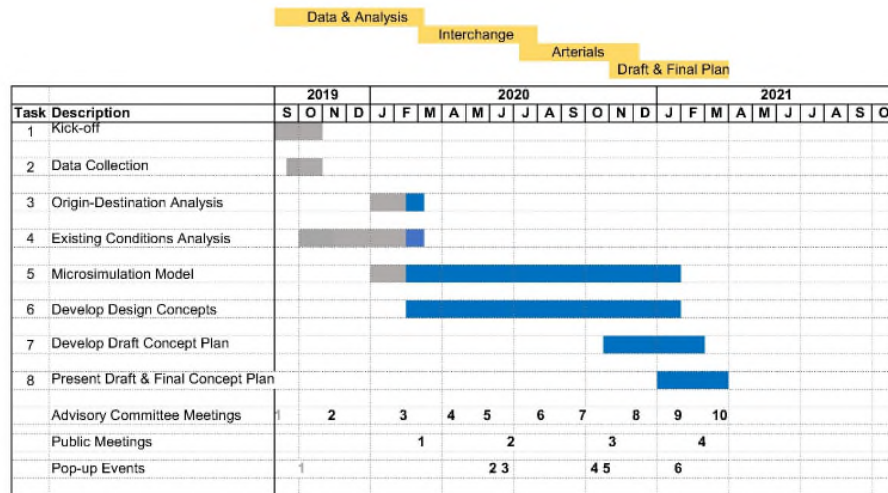
1. How much of the traffic on the Arterials is through traffic?
2. How much traffic on US Route 9 is through traffic?
3. How much of the traffic is destined to downtown and where is it coming from?
4. What are the predominant patterns at the interchange?
5. How much traffic enters the City from the North via Washington Ave vs the Interchange?
6. How much traffic enters the City from the South via Academy vs the Interchange?



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Schedule



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